

Figure 1  
AT9-98-920

00305109 050598  
00305109 050598

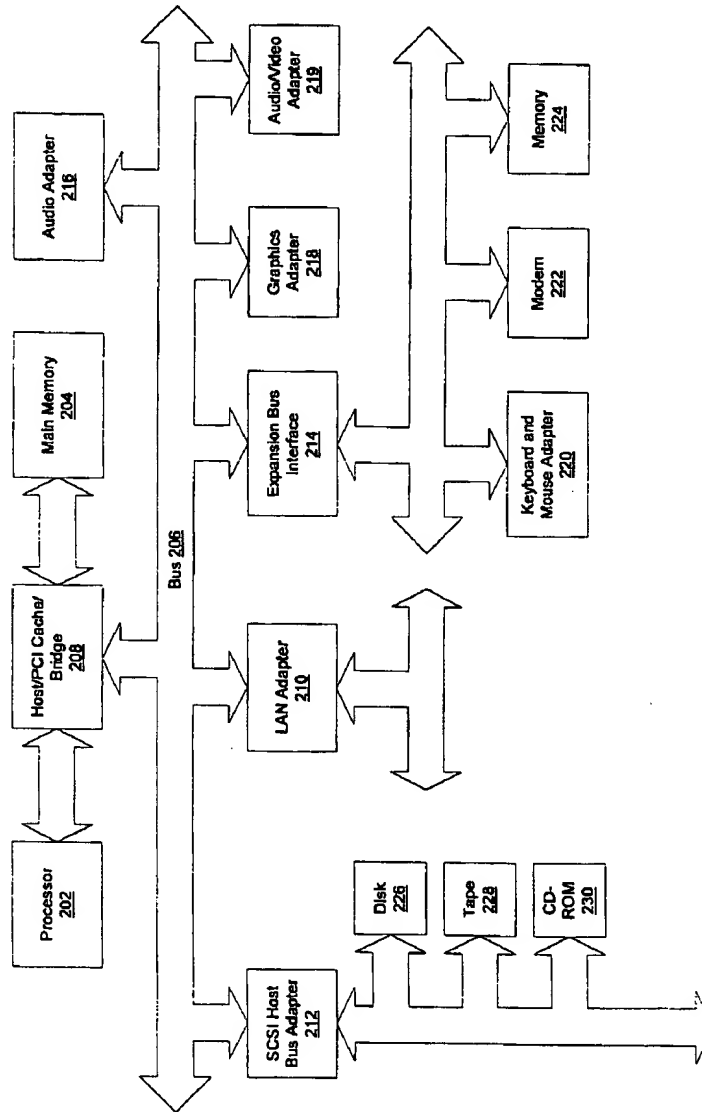
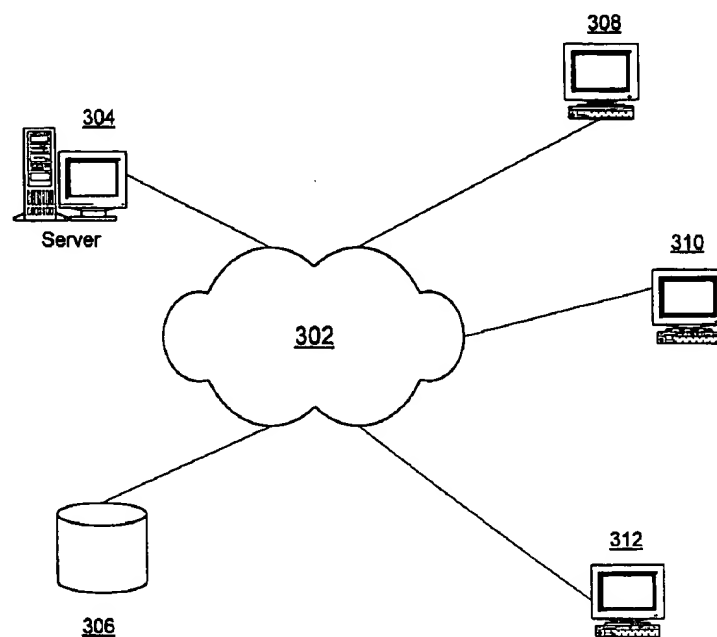


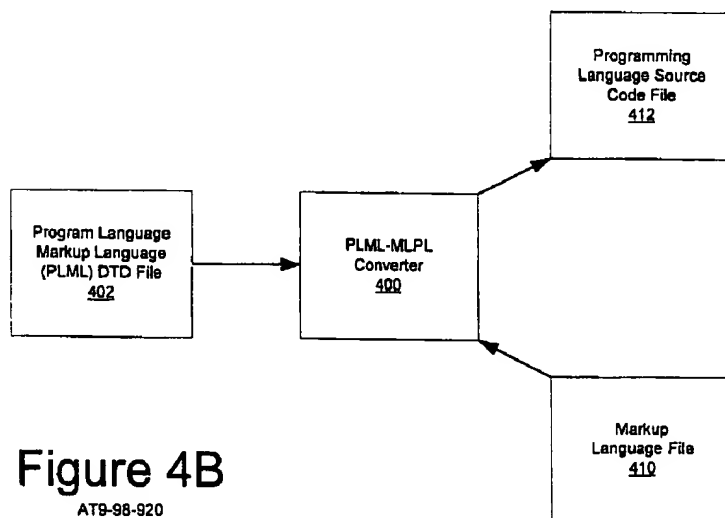
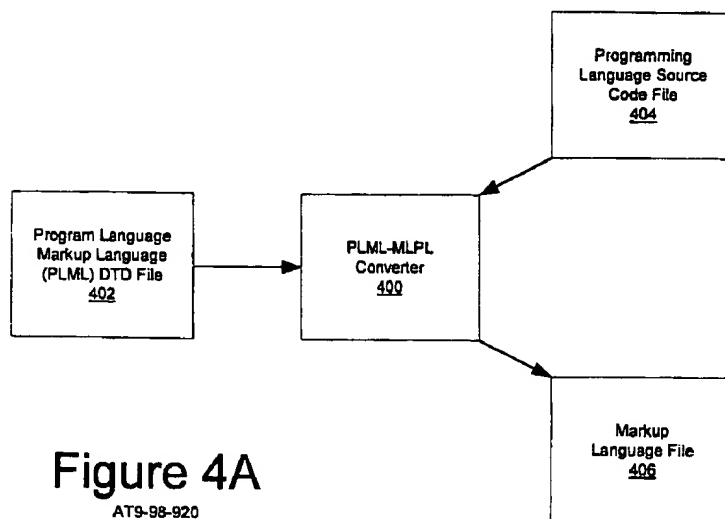
Figure 2  
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300  
Network  
**Figure 3**

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663050" 66T50E60



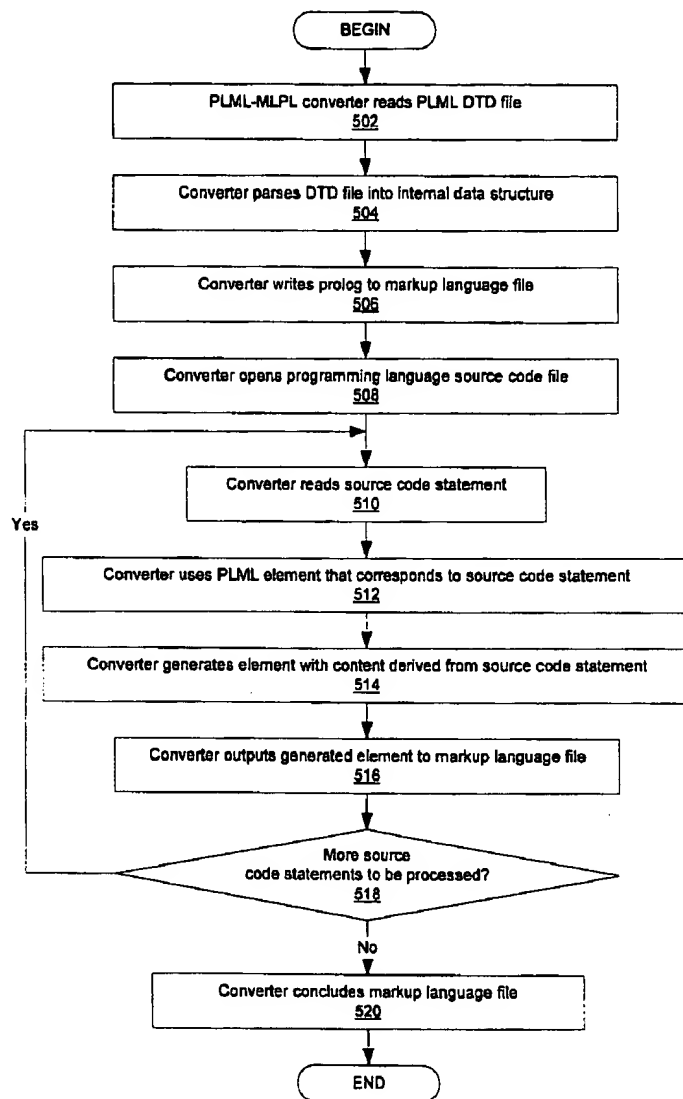


Figure 5

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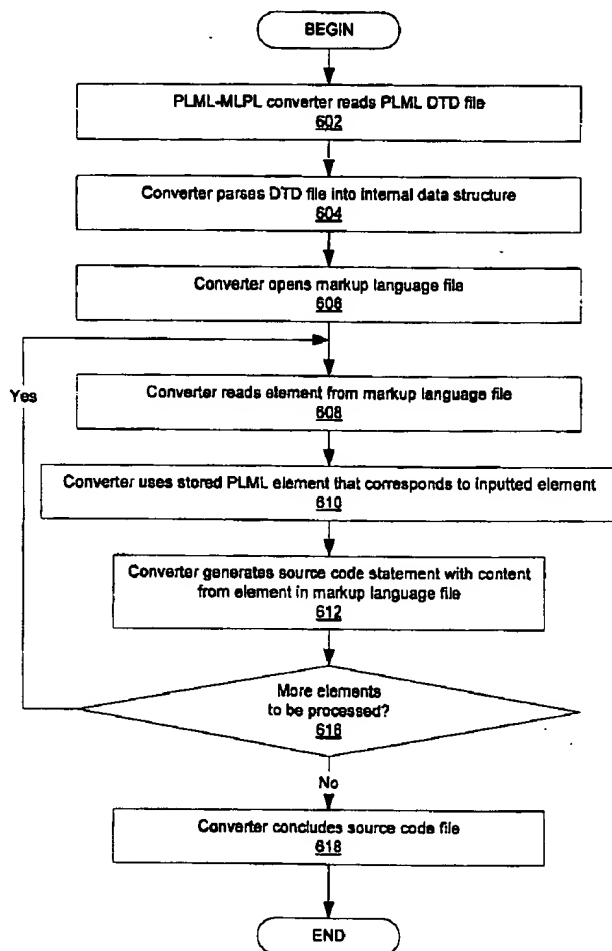


Figure 6

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```
704 { < ! ELEMENT p1m1 % base_content_model!>
```

```

708 { <! ELEMENT functionB EMPTY>
      <![ ATTLIST  functionB  arg1  CDATA  #REQUIRED
      >
      <!-- End of DTD for Programming Language Markup Language-->

```

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```

800 {
    802 { main programA ( ){
        integer temp;
        initProg ( );
    }
    804 {
        temp = functionA (5,7);
    }
    806 {
        temp = functionB (25);
    }
}

```

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663030" 63F30E60

900 {

902 { < ? plml version = "1.0"?>  
< ! DOCTYPE plml SYSTEM "plml.dtd">

904 { < plml>

906 { < ! - main programA ( )> →  
< ! - integer temp; →  
< ! - initProg ( ); →

908 { < functionA arg1="5" arg2="7" />

910 { < functionB arg1="25" />

912 { < ! - } →

914 { < / plml >

Figure 9A

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920 {

922 { < ? plml version = "1.0"?>  
< ! DOCTYPE plml SYSTEM "plml.dtd">

924 { < plml >

926 { < functionA arg1="5" arg2="7" />

928 { < functionB arg1="25" />

930 { < /plml >

Figure 9B

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669050" 63F90E60

```

900 {
  902 { < ? plml version = "1.0"?>
      < ! DOCTYPE plml SYSTEM "plml.dtd">
  904 { < plml >
  906 { < ! -- main programA ( ) { -->
      < ! -- integer temp; -->
      < ! -- initProg ( ); -->
  908 { < functionA arg1="5" arg2="7" />
  910 { < functionB arg1="25" />
  912 { < ! -- } -->
  914 { < / plml >

```

Figure 9A

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```

920 {
  922 { < ? plml version = "1.0"?>
      < ! DOCTYPE plml SYSTEM "plml.dtd">
  924 { < plml >
  926 { < functionA arg1="5" arg2="7" />
  928 { < functionB arg1="25" />
  930 { < /plml >

```

Figure 9B

AT9-98-920

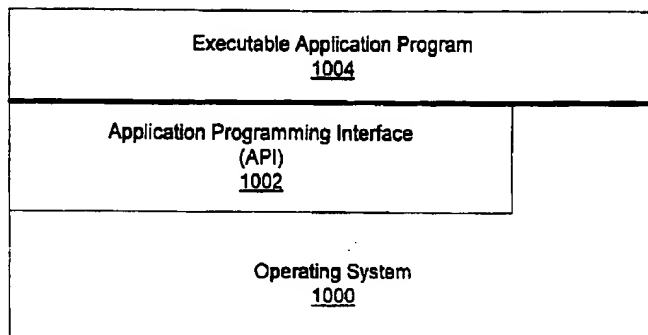


Figure 10A

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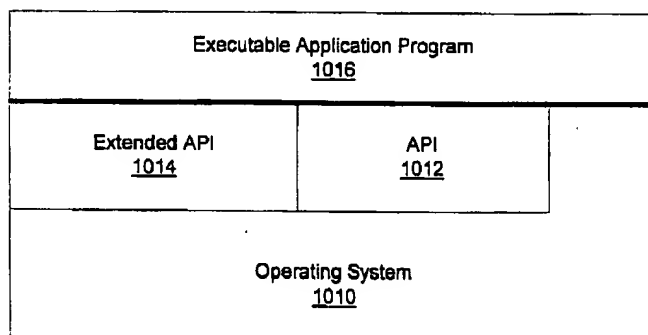


Figure 10B

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65930" 63T90E60

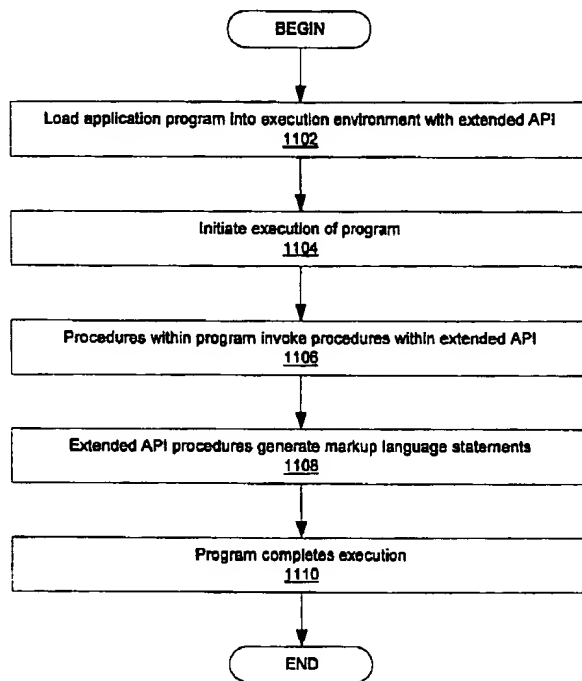


Figure 11

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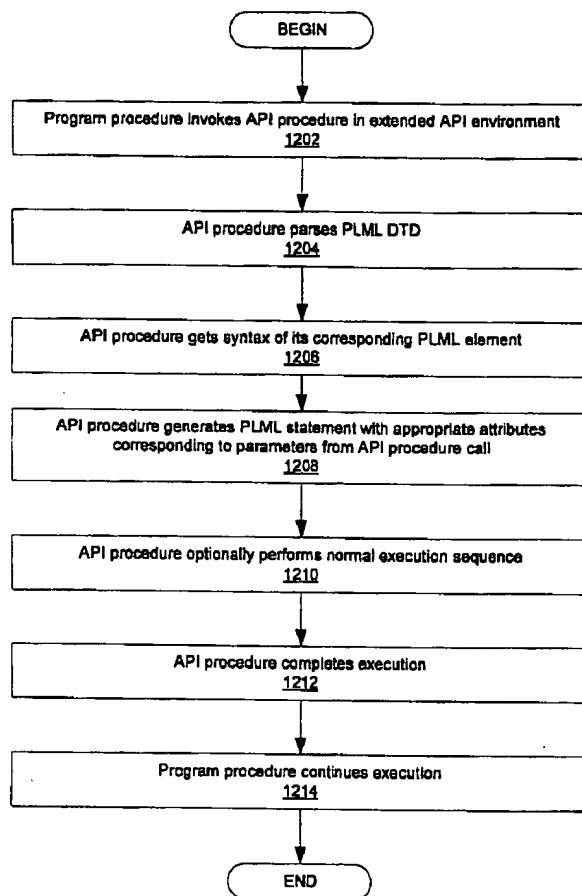
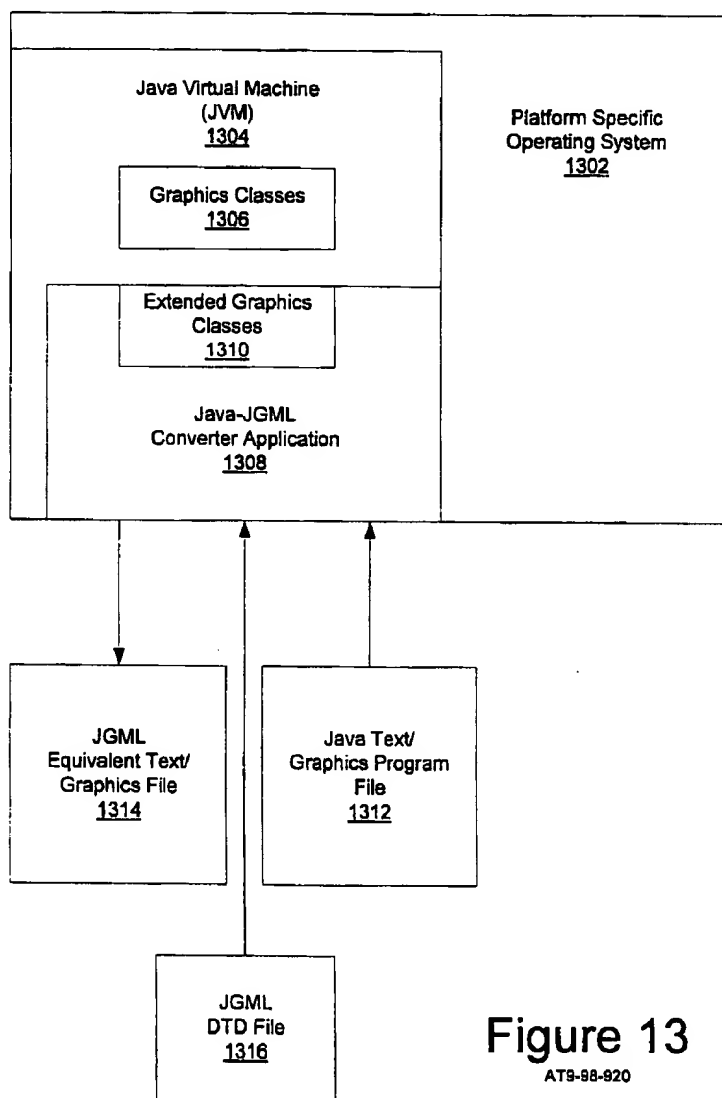


Figure 12

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**Figure 13**  
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663050" 63730660

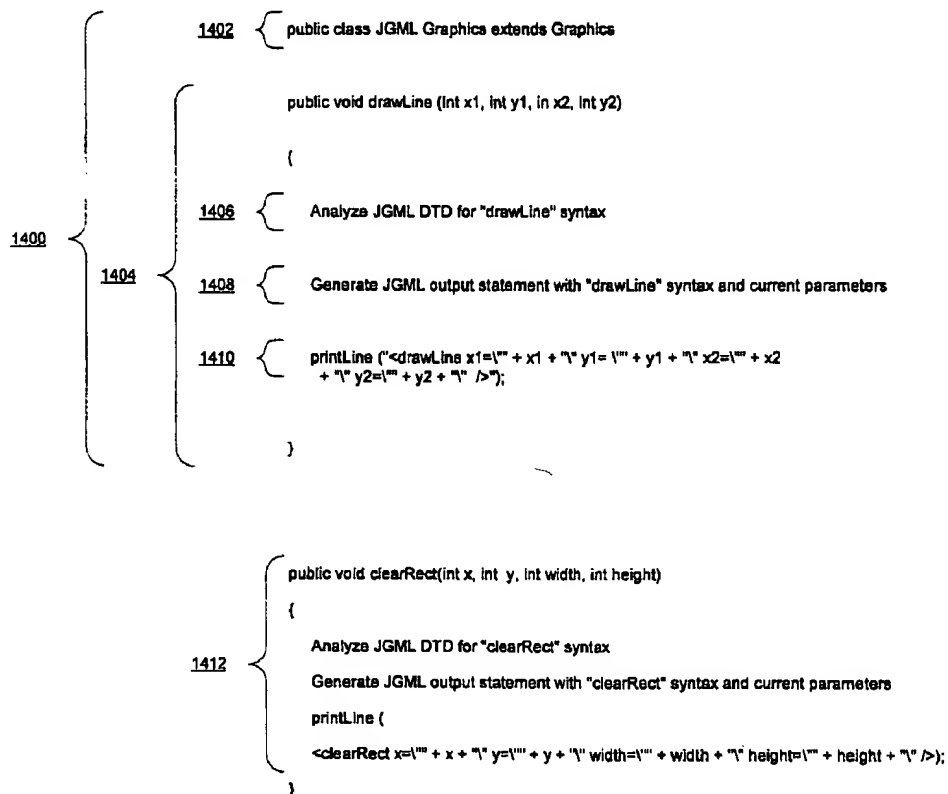


Figure 14

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```

<!-- Java Graphics Markup Language (JGML) Document Type Definition (DTD) -->
<!ENTITY % base_content_model
'copyArea | drawLine | fillRect | drawRect | clearRect |
drawRoundRect | fillRoundRect | draw3Drect | fill3Drect|
drawOval | fillOval | drawArc | fillArc | drawPolyline|
drawPolygon | fillPolygon | drawString | drawChars|
drawBytes | drawImage | dispose | finalize | clipRect|
setClip | setColor | setPaintMode | translate | setXORMode |
setFont)*'
>
<!ELEMENT jgml %base_content_model;>
<!ELEMENT copyArea EMPTY>
<!ATTLIST
    copyArea
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
        dx CDATA #REQUIRED
        dy CDATA #REQUIRED
>
<!ELEMENT drawLine EMPTY>
<!ATTLIST
    drawLine
        x1 CDATA #REQUIRED
        y1 CDATA #REQUIRED
        x2 CDATA #REQUIRED
        y2 CDATA #REQUIRED
>
<!ELEMENT fillRect EMPTY>
<!ATTLIST
    fillRect
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
>
<!ELEMENT drawRect EMPTY>
<!ATTLIST
    drawRect
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
>
<!ELEMENT clearRect EMPTY>
<!ATTLIST
    clearRect
        x CDATA #REQUIRED
        y CDATA #REQUIRED
        width CDATA #REQUIRED
        height CDATA #REQUIRED
>

```

**Figure 15A**

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```

<!ELEMENT drawRoundRect EMPTY>
<!ATTLIST
    drawRoundRect      x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width      CDATA      #REQUIRED
                      height     CDATA      #REQUIRED
                      arcWidth   CDATA      #REQUIRED
                      arcHeight  CDATA      #REQUIRED
>
<!ELEMENT fillRoundRect EMPTY>
<!ATTLIST
    fillRoundRect      x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width      CDATA      #REQUIRED
                      height     CDATA      #REQUIRED
                      arcWidth   CDATA      #REQUIRED
                      arcHeight  CDATA      #REQUIRED
>
<!ELEMENT draw3DRect   EMPTY>
<!ATTLIST
    draw3DRect          x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width      CDATA      #REQUIRED
                      height     CDATA      #REQUIRED
                      raised     CDATA      #REQUIRED
>
<!ELEMENT fill3DRect   EMPTY>
<!ATTLIST
    fill3DRect          x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width      CDATA      #REQUIRED
                      height     CDATA      #REQUIRED
                      raised     CDATA      #REQUIRED
>
<!ELEMENT drawOval     EMPTY>
<!ATTLIST
    drawOval            x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width      CDATA      #REQUIRED
                      height     CDATA      #REQUIRED
>
<!ELEMENT fillOval     EMPTY>
<!ATTLIST
    fillOval            x          CDATA      #REQUIRED
                      y          CDATA      #REQUIRED
                      width      CDATA      #REQUIRED
                      height     CDATA      #REQUIRED
>

```

Figure 15B

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<!ELEMENT drawArc	EMPTY>		
<!ATTLIST			
drawArc	x	CDATA	#REQUIRED
	y	CDATA	#REQUIRED
	width	CDATA	#REQUIRED
	height	CDATA	#REQUIRED
	startAngle	CDATA	#REQUIRED
	arcAngle	CDATA	#REQUIRED
>			
<!ELEMENT fillArc	EMPTY>		
<!ATTLIST			
fillArc	x	CDATA	#REQUIRED
	y	CDATA	#REQUIRED
	width	CDATA	#REQUIRED
	height	CDATA	#REQUIRED
	startAngle	CDATA	#REQUIRED
	arcAngle	CDATA	#REQUIRED
>			
<!ELEMENT drawPolyLine	EMPTY>		
<!ATTLIST			
drawPolyLine	xPoints	CDATA	#REQUIRED
	yPoints	CDATA	#REQUIRED
	nPoints	CDATA	#REQUIRED
>			
<!ELEMENT drawPolygon	EMPTY>		
<!ATTLIST			
drawPolygon	xPoints	CDATA	#IMPLIED
	yPoints	CDATA	#IMPLIED
	nPoints	CDATA	#IMPLIED
	p	CDATA	#IMPLIED
>			
<!ELEMENT fillPolygon	EMPTY>		
<!ATTLIST			
fillPolygon	xPoints	CDATA	#IMPLIED
	yPoints	CDATA	#IMPLIED
	nPoints	CDATA	#IMPLIED
	Polygon	CDATA	#IMPLIED
>			
<!ELEMENT drawString	EMPTY>		
<!ATTLIST			
drawString	str	CDATA	#REQUIRED
	x	CDATA	#REQUIRED
	y	CDATA	#REQUIRED
>			

Figure 15C

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```

<!ELEMENT drawChars      EMPTY>
<!ATTLIST
    drawChars      data      CDATA      #REQUIRED
                  offset    CDATA      #REQUIRED
                  length    CDATA      #REQUIRED
                  x         CDATA      #REQUIRED
                  y         CDATA      #REQUIRED
>
<!ELEMENT drawBytes      EMPTY>
<!ATTLIST
    drawBytes      offset    CDATA      #REQUIRED
                  length    CDATA      #REQUIRED
                  x         CDATA      #REQUIRED
                  y         CDATA      #REQUIRED
>
<!ELEMENT drawImage      EMPTY>
<!ATTLIST
    drawImage      img       CDATA      #REQUIRED
                  x         CDATA      #IMPLIED
                  y         CDATA      #IMPLIED
                  width     CDATA      #IMPLIED
                  height    CDATA      #IMPLIED
                  dx1       CDATA      #IMPLIED
                  dy1       CDATA      #IMPLIED
                  dx2       CDATA      #IMPLIED
                  dy2       CDATA      #IMPLIED
                  sx1       CDATA      #IMPLIED
                  sy1       CDATA      #IMPLIED
                  sx2       CDATA      #IMPLIED
                  sy2       CDATA      #IMPLIED
                  bgcolor    CDATA      #IMPLIED
                  observer   CDATA      #REQUIRED
>
<!ELEMENT dispose      EMPTY>
<!ELEMENT finalize     EMPTY>
<!ELEMENT clipRect     EMPTY>
<!ATTLIST
    clipRect      x         CDATA      #REQUIRED
                  y         CDATA      #REQUIRED
                  width     CDATA      #REQUIRED
                  height    CDATA      #REQUIRED
>

```

Figure 15D

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```
<!ELEMENT setClip          EMPTY>
<!ATTLIST
    setClip                x            CDATA    #IMPLIED
                           y            CDATA    #IMPLIED
                           width        CDATA    #IMPLIED
                           height       CDATA    #IMPLIED
                           clip         CDATA    #IMPLIED
>
<!ELEMENT setColor          EMPTY>
<!ATTLIST
    setColor                color       CDATA    #REQUIRED
<!ELEMENT setPaintmode     EMPTY>
<!ELEMENT translate        EMPTY>
<!ATTLIST
    translate                x          CDATA    #REQUIRED
                           y          CDATA    #REQUIRED
>
<!ELEMENT setXORMode        EMPTY>
<!ATTLIST
    setXORMode              cl         CDATA    #REQUIRED
>
<!ELEMENT setFont           EMPTY>
<!ATTLIST
    setFont                 font       CDATA    #REQUIRED
>
<!-- End of DTD for Java Graphics Markup Language -->
```

Figure 15E

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- **clearRect** (int, int, int, int)  
Clears the specified rectangle by filling it with the background color of the current drawing surface.
- **clipRect** (int, int, int, int)  
Intersects the current clip with the specified rectangle.
- **copyArea** (int, int, int, int, int, int)  
Copies an area of the component by a distance specified by dx and dy.
- **create** ()  
Creates a new Graphics object that is a copy of this Graphics object.
- **create** (int, int, int, int)  
Creates a new Graphics object based on this Graphics object, but with a new translation and clip area.
- **dispose** ()  
Disposes of this graphics context and releases any system resources that it is using.
- **draw3DRect** (int, int, int, int, boolean)  
Draws a 3-D highlighted outline of the specified rectangle.
- **drawArc** (int, int, int, int, int, int)  
Draws the outline of a circular or elliptical arc covering the specified rectangle.
- **drawBytes** (byte[], int, int, int, int)  
Draws the text given by the specified byte array, using this graphics context's current font and color.
- **drawChars** (char[], int, int, int, int)  
Draws the text given by the specified character array, using this graphics context's current font and color.
- **drawImage** (Image, int, int, Color, ImageObserver)  
Draws as much of the specified image as is currently available.
- **drawImage** (Image, int, int, int, int, Color, ImageObserver)  
Draws as much of the specified image as has already been scaled to fit inside the specified rectangle.
- **drawImage** (Image, int, int, int, int, ImageObserver)  
Draws as much of the specified image as has already been scaled to fit inside the specified rectangle.
- **drawImage** (Image, int, int, int, int, int, int, int, int, Color, ImageObserver)  
Draws as much of the specified area of the specified image as is currently available, scaling it on the fly to fit inside the specified area of the destination drawable surface.
- **drawImage** (Image, int, int, int, int, int, int, int, int, ImageObserver)  
Draws as much of the specified area of the specified image as is currently available, scaling it on the fly to fit inside the specified area of the destination drawable surface.
- **drawLine** (int, int, int, int)  
Draws a line, using the current color, between the points (x1, y1) and (x2, y2) in this graphics context's coordinate system.
- **drawOval** (int, int, int, int)  
Draws the outline of an oval.
- **drawPolygon** (int[], int[], int)  
Draws a closed polygon defined by arrays of x and y coordinates.
- **drawPolygon** (Polygon)  
Draws the outline of a polygon defined by the specified Polygon object.
- **drawPolyline** (int[], int[], int)  
Draws a sequence of connected lines defined by arrays of x and y coordinates.
- **drawRect** (int, int, int, int)  
Draws the outline of the specified rectangle.
- **drawRoundRect** (int, int, int, int, int, int)  
Draws an outlined round-cornered rectangle using this graphics context's current color.

Figure 16A

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- **drawString** (String, int, int)  
Draws the text given by the specified string, using this graphics context's current font and color.
- **fill3DRect** (int, int, int, int, boolean)  
Paints a 3-D highlighted rectangle filled with the current color.
- **fillArc** (int, int, int, int, int, int)  
Fills a circular or elliptical arc covering the specified rectangle.
- **fillOval** (int, int, int, int)  
Fills an oval bounded by the specified rectangle with the current color.
- **fillPolygon** (int[], int[], int)  
Fills a closed polygon defined by arrays of x and y coordinates.
- **fillPolygon** (Polygon)  
Fills the polygon defined by the specified Polygon object with the graphics context's current color.
- **fillRect** (int, int, int, int)  
Fills the specified rectangle.
- **fillRoundRect** (int, int, int, int, int, int)  
Fills the specified rounded corner rectangle with the current color.
- **finalize** ()  
Disposes of this graphics context once it is no longer referenced.
- **getClip** ()  
Gets the current clipping area.
- **getClipBounds** ()  
Returns the bounding rectangle of the current clipping area.
- **getClipRect** ()  
Deprecated.
- **getColor** ()  
Gets this graphics context's current color.
- **getFont** ()  
Gets the current font.
- **getFontMetrics** ()  
Gets the font metrics of the current font.
- **getFontMetrics** (Font)  
Gets the font metrics for the specified font.
- **setClip** (int, int, int, int)  
Sets the current clip to the rectangle specified by the given coordinates.
- **setClip** (Shape)  
Sets the current clipping area to an arbitrary clip shape.
- **setColor** (Color)  
Sets this graphics context's current
- **setFont** (Font)  
Sets this graphics context's font to the specified font.
- **setPaintMode** ()  
Sets the paint mode of this graphics context to overwrite the destination with this graphics context's current color.
- **setXORMode** (Color)  
Sets the paint mode of this graphics context to alternate between this graphics context's current color and the new specified color.
- **toString** ()  
Returns a String object representing this Graphics object's value.
- **translate** (int, int)  
Translates the origin of the graphics context to the point (x, y) in the current coordinate system.

Figure 16B

AT9-98-920

63030 " 63030"

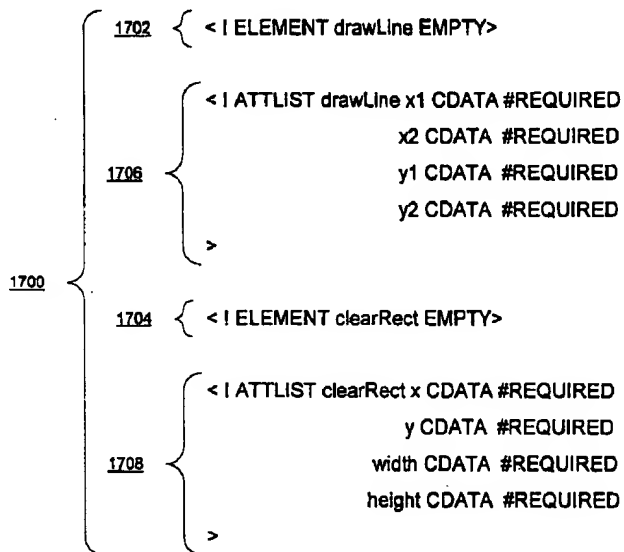


Figure 17

AT9-98-920

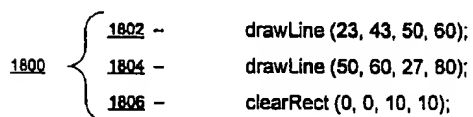


Figure 18

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663030" 63430200

1900 { 1902 - < drawLine x1="23" y1="43" x2="50 y2="60" / >  
1904 - < drawLine x1="50" y1="60" x2="27 y2="80" / >  
1906 - < clearRect x="0" y="0" width="10" height="10" / >  
< /jgml >

Figure 19

AT9-98-920

050619-05069  
050619-05069